

## NUCLEIC ACID ARRAYS COMPRISING DEPURINATION PROBE FEATURES AND METHODS FOR USING THE SAME

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### ABSTRACT OF THE DISCLOSURE

In situ produced nucleic acid arrays that include at least one depurination probe feature are provided, where the at least one depurination probe feature is made up of in situ produced depurination probes. In using the subject arrays, the arrays are contacted with a nucleic acid sample that includes a target which specifically binds to the full length depurination probe of the depurination feature, and the amount of resultant duplex nucleic acids in the feature is determined (e.g., based on detected signal from the feature) to evaluate the extent of depurination that occurred during in situ synthesis of the array. The subject arrays find use in a variety of different applications, including array fabrication quality control applications, e.g., to determine the extent of depurination in a given lot of nucleic acid arrays produced using an in situ fabrication protocol. Also provided are computer programming, devices that include the same and kits that find use in practicing the subject methods.